

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/566,954  
Source: IFWP  
Date Processed by STIC: 02/14/2006

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 02/14/2006

PATENT APPLICATION: US/10/566,954

TIME: 12:48:12

Input Set : F:\seq\_listing\_11548\_003\_999.txt

Output Set: N:\CRF4\02142006\J566954.raw

```

3 <110> APPLICANT: Gustafsson, Claes
4      Govindarajin, Sridhar
5      Minshull, Jeremy Stephen
7 <120> TITLE OF INVENTION: Systems and Methods for Antibody
8      Engineering
10 <130> FILE REFERENCE: 11548-03-999
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/566,954
C--> 13 <141> CURRENT FILING DATE: 2006-01-31
13 <150> PRIOR APPLICATION NUMBER: PCT/US04/24751
14 <151> PRIOR FILING DATE: 2004-07-30
16 <150> PRIOR APPLICATION NUMBER: 60/536,862
17 <151> PRIOR FILING DATE: 2004-01-15
19 <150> PRIOR APPLICATION NUMBER: 60/536,357
20 <151> PRIOR FILING DATE: 2004-01-14
22 <150> PRIOR APPLICATION NUMBER: 60/491,815
23 <151> PRIOR FILING DATE: 2003-08-01
25 <160> NUMBER OF SEQ ID NOS: 3
27 <170> SOFTWARE: FastSEQ for Windows Version 4.0
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 20
31 <212> TYPE: PRT
32 <213> ORGANISM: E. Coli
34 <220> FEATURE:
35 <223> OTHER INFORMATION: E Coli Leader Peptide
38 <400> SEQUENCE: 1
39 Met Lys Lys Leu Leu Phe Ala Ile Pro Leu Val Val Pro Phe Tyr Ser
40 1          5          10          15
41 His Ser Thr Met
42          20
45 <210> SEQ ID NO: 2
46 <211> LENGTH: 377
47 <212> TYPE: PRT
48 <213> ORGANISM: Tritirachium album Limber
50 <220> FEATURE:
51 <223> OTHER INFORMATION: Tritirachium album Limber proteinase K
54 <400> SEQUENCE: 2
55 Ala Pro Ala Val Glu Gln Arg Ser Glu Ala Ala Pro Leu Ile Glu Ala
56 1          5          10          15
57 Arg Gly Glu Met Val Ala Asn Lys Tyr Ile Val Lys Phe Lys Glu Gly
58          20          25          30
59 Ser Ala Leu Ser Ala Leu Asp Ala Ala Met Glu Lys Ile Ser Gly Lys
60          35          40          45
61 Pro Asp His Val Tyr Lys Asn Val Phe Ser Gly Phe Ala Ala Thr Leu

```

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```

62      50      55      60
63 Asp Glu Asn Met Val Arg Val Leu Arg Ala His Pro Asp Val Glu Tyr
64 65      70      75      80
65 Ile Glu Gln Asp Ala Val Val Thr Ile Asn Ala Ala Gln Thr Asn Ala
66      85      90      95
67 Pro Trp Gly Leu Ala Arg Ile Ser Ser Thr Ser Pro Gly Thr Ser Thr
68      100      105      110
69 Tyr Tyr Tyr Asp Glu Ser Ala Gly Gln Gly Ser Cys Val Tyr Val Ile
70      115      120      125
71 Asp Thr Gly Ile Glu Ala Ser His Pro Glu Phe Glu Gly Arg Ala Gln
72      130      135      140
73 Met Val Lys Thr Tyr Tyr Ser Ser Arg Asp Gly Asn Gly His Gly
74 145      150      155      160
75 Thr His Cys Ala Gly Thr Val Gly Ser Arg Thr Tyr Gly Val Ala Lys
76      165      170      175
77 Lys Thr Gln Leu Phe Gly Val Lys Val Leu Asp Asp Asn Gly Ser Gly
78      180      185      190
79 Gln Tyr Ser Thr Ile Ile Ala Gly Met Asp Phe Val Ala Ser Asp Lys
80      195      200      205
81 Asn Asn Arg Asn Cys Pro Lys Gly Val Val Ala Ser Leu Ser Leu Gly
82      210      215      220
83 Gly Gly Tyr Ser Ser Ser Val Asn Ser Ala Ala Ala Arg Leu Gln Ser
84 225      230      235      240
85 Ser Gly Val Met Val Ala Val Ala Ala Gly Asn Asn Asn Ala Asp Ala
86      245      250      255
87 Arg Asn Tyr Ser Pro Ala Ser Glu Pro Ser Val Cys Thr Val Gly Ala
88      260      265      270
89 Ser Asp Arg Tyr Asp Arg Arg Ser Ser Phe Ser Asn Tyr Gly Ser Val
90      275      280      285
91 Leu Asp Ile Phe Gly Pro Gly Thr Ser Ile Leu Ser Thr Trp Ile Gly
92      290      295      300
93 Gly Ser Thr Arg Ser Ile Ser Gly Thr Ser Met Ala Thr Pro His Val
94 305      310      315      320
95 Ala Gly Leu Ala Ala Tyr Leu Met Thr Leu Gly Lys Thr Thr Ala Ala
96      325      330      335
97 Ser Ala Cys Arg Tyr Ile Ala Asp Thr Ala Asn Lys Gly Asp Leu Ser
98      340      345      350
99 Asn Ile Pro Phe Gly Thr Val Asn Leu Leu Ala Tyr Asn Asn Tyr Gln
100      355      360      365

```

101 Ala Val Asp His His His His His His

102 370 375

105 &lt;210&gt; SEQ ID NO: 3

106 &lt;211&gt; LENGTH: 1193

107 &lt;212&gt; TYPE: DNA

108 &lt;213&gt; ORGANISM: Artificial Sequence

110 &lt;220&gt; FEATURE:

111 &lt;223&gt; OTHER INFORMATION: Artificial nucleic acid sequence encoding Tritirachium album

112 Limber proteinase K

115 &lt;400&gt; SEQUENCE: 3

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```

116 atgaaaaaac tgctgttcgc gattccgctg gtggtgccgt tctatagcca tagcaccatg 60
117 gcaccggccg ttgaacagcg ttctgaagca gtcctcttga ttgaggcacg tggtgaaatg 120
118 gtagcaaaca agtacatcgt gaagttcaag gagggttctg ctctgtctgc tctggatgct 180
119 gctatggaaa agatctctgg caagcctgat cacgtctata agaacgtgtt cagcgggttc 240
120 gcagcaactc tggacgagaa catggtccgt gtactgcgtg ctcattccaga cgttgaatac 300
121 atcgaacagg acgctgtggt tactatcaac gcggcacaga ctaacgcacc ttggggctctg 360
122 gcacgtatctt cttctacttc cccgggtacg tctacttact actacgacga gtctgccggg 420
123 caaggttctt gcgtttacgt gatcgatacg ggcatcgagg cttctcatcc tgagtttgaa 480
124 ggccgtgcac aaatggtgaa gacctactac tactcttccc gtgacggtaa tggtcacggg 540
125 actcattgcy caggtactgt tggtagccgt acctacgggtg ttgctaagaa aacgcaactg 600
126 ttcggcggtta aagtgtctga cgacaacggg tctggtcagt actccaccat tatcgccggg 660
127 atggatttcg tagcgagcga taaaaacaac cgcaactgcc cgaaagggtg tgtggcttct 720
128 ctgtctctgg gtggtggtta ctcctcttct gttaacagcg cagctgcacg tctgcaatct 780
129 tccggtgtca tggtcgcagt agcagctggt aacaataacg ctgatgcacg caactactct 840
130 cctgctagcy agccttctgt ttgcaccgtg ggtgcatctg atcgttatga tcgtcgtagc 900
131 tccttcagca actatgggtc cgtcctggat atcttcggcc ctggtacttc tatcctgtct 960
132 acctggattg gcggtagcac tcgttccatt tccggtacga gcatggctac tccacatggt 1020
133 gctggtctgg cagcatacct gatgaccctg ggtaagacca ctgctgcac cgttctgctg 1080
134 tacatcgcyg atactgcgaa caaaggcgat ctgtctaaca tcccggtcgg caccgttaat 1140
135 ctgctggcat acaacaacta tcaggctgtc gaccatcatc atcatcatca tag 1193

```

**VERIFICATION SUMMARY**

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Input Set : F:\seq\_listing\_11548\_003\_999.txt

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L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date